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and new

NEWS 12 APR 04 EMBASSY Database updated and will be used to track the progress of the investigation.

NEWS 13 APR 04 EMBASE - Database reloaded and enhanced NEWS 14 APR 04 New CMS Information Has Published

NEWS 14 APR 18 New CAS Information Use Policies available online  
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alerts (SDIcs)

based on application data in CA/CAplus and

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USPATFULL/USPAT2 based on application date in CA/CAPplus and may be affected by a change in filing date for U.S.

may be affected by a change in filing date for certain applications.

NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for

U.S. patent records in CA/Cplus  
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images  
NEWS 18 MAY 23 REGISTRY has been enhanced with source information

from CHEMCATS  
NEWS 19 JUN 06 The Analysis Edition of STN Express with Discover!

(Version 8.0 for Windows) now available

NEWS 20 JUN 13 RUSSIAPAT: New full-text patent database on STN

NEWS 21 JUN 13 FRFULL enhanced with patent drawing images

NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions

and text labels

NEWS 23 JUL 01 MEDICONF removed from STN

NEWS 24 JUL 07 STN Patent Forums to be held in July 2005

NEWS 25 JUL 13 SCISEARCH reloaded

NEWS 26 JUL 20 Powerful new interactive analysis and visualization software,

STN AnaVist, now available

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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=> s (chymotrypsin or trypsin)  
L1 250505 (CHYMOTRYPSIN OR TRYPSIN)

=> s (serine (3A) 217) or S217 or Ser217  
L2 82 (SERINE (3A) 217) OR S217 OR SER217

=> s (isoleucine (3A) 212) or I217 or Ile217  
L3 11 (ISOLEUCINE (3A) 212) OR I217 OR ILE217

=> s 11 (20A) 12  
L4 1 L1 (20A) L2

=> d 14 bib ab

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2000:446347 CAPLUS  
DN 133:219283  
TI Trypsin-specific acyl-4-guanidinophenyl esters for  
α-chymotrypsin-  
catalysed reactions. Computational predictions, hydrolyses, and  
peptide  
bond formation  
AU Gunther, Robert; Thust, Sven; Hofmann, Hans-Jorg; Bordusa, Frank  
CS Department of Biochemistry, Faculty of Biosciences, Pharmacy and  
Psychology, University of Leipzig, Halle/Saale, Germany  
SO European Journal of Biochemistry (2000), 267(12), 3496-3501  
CODEN: EJBCAI; ISSN: 0014-2956  
PB Blackwell Science Ltd.  
DT Journal  
LA English  
AB The function of acyl-4-guanidinophenyl esters as substrate  
mimetics for  
the serine protease α-chymotrypsin was investigated by  
protein-ligand docking, hydrolysis, and acyl transfer expts. On  
the basis  
of protein-ligand docking studies, the binding and hydrolysis  
properties  
of these artificial substrates were estimated. The predictions  
of the rational  
approach were confirmed by steady-state hydrolysis studies on  
4-guanidinophenyl esters derived from coded amino acids (which  
α-chymotrypsin is not specific for), non-coded amino acids, and  
even  
simple carboxylic acid moieties. Enzymic peptide syntheses  
qualify these  
esters as suitable acyl donors for the coupling of acyl  
components far  
from the natural enzyme specificity, thus considerably expanding  
the

synthetic utility of  $\alpha$ -chymotrypsin.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> S 11 (20A) 13  
L5 0 L1 (20A) L3

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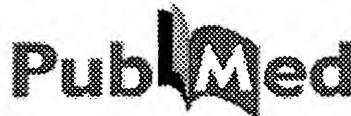
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jul 29, 2005 (20050729/UP).



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1: Ishida T, Kato S.

Related Articles, Links

Theoretical perspectives on the reaction mechanism of serine proteases: the reaction free energy profiles of the acylation process. J Am Chem Soc. 2003 Oct 1;125(39):12035-48.  
PMID: 14505425 [PubMed - indexed for MEDLINE]

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1: [Ghani U, Ng KK, Atta-ur-Rahman, Choudhary MI, Ullah N, James MN.](#) Related Articles, Links

Crystal structure of gamma-chymotrypsin in complex with 7-hydroxycoumarin.

*J Mol Biol.* 2001 Nov 30;314(3):519-25.

PMID: 11846564 [PubMed - indexed for MEDLINE]

2: [Capasso C, Rizzi M, Menegatti E, Ascenzi P, Bolognesi M.](#) Related Articles, Links

Crystal structure of the bovine alpha-chymotrypsin:Kunitz inhibitor complex. An example of multiple protein:protein recognition sites.

*J Mol Recognit.* 1997 Jan-Feb;10(1):26-35.

PMID: 9179777 [PubMed - indexed for MEDLINE]

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22701	(chymotrypsin or trypsin)	USPAT	OR	OFF	2005/08/01 11:40
L2	1435	(serine near3 "217") or "S217" or Ser217	USPAT	OR	OFF	2005/08/01 11:57
L3	12	I1 and I2	USPAT	OR	OFF	2005/08/01 11:41
L4	0	I1 near10 I2	USPAT	OR	OFF	2005/08/01 11:41
L5	0	I1 near20 I2	USPAT	OR	OFF	2005/08/01 11:41
L6	19	(isoleucine near3 "212") or I217 or Ile217	USPAT	OR	OFF	2005/08/01 11:58
L7	0	I1 near29 I6	USPAT	OR	OFF	2005/08/01 11:58